

Message Text

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ACTION SCI-06

INFO OCT-01 EUR-25 IO-14 ISO-00 ACDA-19 CIAE-00 INR-10

L-03 NSAE-00 NSC-07 RSC-01 FEA-02 NEA-10 EA-11 SS-20

NSCE-00 DRC-01 /130 W

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R 111452Z MAR 74

FM USMISSION IAEA VIENNA

TO SECSTATE WASHDC 4060

INFO AEC GERMANTOWN

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USMISSION GENEVA

USMISSION OECD PARIS

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UNCLAS SECTION 1 OF 2 IAEA VIENNA 2121

AEC ALSO PASS COMMISSIONER DOUB

STATE ALSO FOR T/IEP

E.O. 11652: N/A

TAGS: IAEA, TECH, ENRG

SUBJ: IAEA AD HOC ADVISORY COMMITTEE ON NUCLEAR

POWER PLANT SAFETY AND RELIABILITY, VIENNA,

APR 1-5, 1974

REF: IAEA VIENNA 1832 AND 1925

SUMMARY: KEY POINTS OF WORKING PAPER PREPARED FOR
SUBJECT COMMITTEE ARE SUMMARIZED BELOW. PAPER PROVIDES
GENERAL OUTLINE FOR 2-YEAR IAEA PROGRAM TO DEVELOP 7 CODES
OF PRACTICE, 14 SAFETY GUIDES, AND 10 USERS' MANUALS IN
CONNECTION WITH SAFETY AND RELIABILITY ASPECTS OF DESIGN,
CONSTRUCTION AND OPERATION OF NUCLEAR POWER PLANTS. PROCEDURES FOR
CARRYING OUT PROGRAM ARE DISCUSSED. AGENCY PRELIMINARY
ESTIMATE FOR PROGRAM IS APPROXIMATELY \$1 MILLION, NOT
RPT NOT INCLUDING TRAVEL, PER DIEM OR SALARIES OF MOST
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PARTICIPANTS THAT WILL BE REQUIRED FOR MEETINGS. MISSION

COMMENTS FOLLOW SEPTEL. END SUMMARY.

1. MISSION HAS RECEIVED FROM AGENCY WORKING PAPER FOR SUBJECT MEETING ENTITLED: "PRELIMINARY CONSIDERATION OF A PROGRAM OF SAFETY REGULATIONS FOR THE AGENCY." COPY SENT MARCH 6 VIA INTERNATIONAL AIR MAIL TO AMMONS, AEC. ADDITIONAL COPIES BEING POUCHED.

2. PAPER WAS PREPARED LARGELY BY AGENCY CONSULTANT (IANSITI, ITALY) AND SETS FORTH GENERAL OBJECTIVES FOR TWO-YEAR INITIAL PHASE OF AGENCY PROGRAM DESIGNED TO PRODUCE INTERNATIONALLY ACCEPTABLE GUIDELINES RE SAFETY AND RELIABILITY ASPECTS OF NUCLEAR POWER STATIONS.

3. PAPER BREAKS DOWN SAFETY AND RELIABILITY RELATED TOPICS THAT NEED TO BE ADDRESSED BY AGENCY INTO FOUR MAIN SUBJECT AREAS OR GROUPS, WITH EACH GROUP FURTHER BROKEN DOWN INTO SUB-GROUPS. TOPICS IN EACH GROUP HAVE TECHNICAL HOMOGENEITY WHICH SHOULD BE ABLE TO BE DEALT WITH BY SAME CATEGORY OF EXPERTS.

A. FIRST MAIN GROUP DEALS WITH "SITING," WHICH INCLUDES VARIOUS TOPICS CONCERNED WITH ENVIRONMENTAL IMPACT OF PLANT AS WELL AS CONSIDERATION OF SEVERAL NATURAL OR MAN-MADE HAZARDS THAT MIGHT BE INVOLVED, PLUS POPULATION DENSITY FACTOR AND CRITERIA DEFINING ACCEPTABLE DOSE TO POPULATION IN CASE OF ACCIDENT.

B. SECOND MAIN GROUP DEALS WITH "DESIGN CHARACTERISTICS AND SAFETY EVALUATION," WHICH INCLUDES EVERYTHING RELATED TO CRITERIA FOR DESIGN OF PLANT AS WHOLE, AND FOR ITS SYSTEMS, SUBSYSTEMS AND COMPONENTS.

C. THIRD GROUP CONCERNS "OPERATIONAL PROBLEMS," WHICH INCLUDES ALL PROBLEMS ASSOCIATED WITH TESTING, NORMAL OPERATION AND EMERGENCY PROCEDURES, SUCH AS PROBLEMS OF SELECTION AND TRAINING OF OPERATORS, PREPARATION OF OPERATION MANUALS, TEST SPECIFICATION AND START-UP MANUALS, ETC.

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D. FOURTH GROUP DEALS WITH "QUALITY ASSURANCE," SUCH AS QUALITY ASSURANCE REQUIREMENTS IN ALL PHASES OF PRODUCTION, DESIGN, CONSTRUCTION, TESTING, OPERATION, STORAGE, ETC.

4. WITHIN FOREGOING SUBJECT AREAS, PROPOSED AGENCY PROGRAM WOULD INVOLVE PREPARATION OF THREE TYPES OF DOCUMENTS:

A. CODES OF PRACTICE, WHICH WOULD ESTABLISH MINIMUM SAFETY REQUIREMENTS FOR POWER REACTOR PLANTS IN GENERAL FOR PARTICULAR TYPES OF REACTORS AND FOR THEIR SYSTEMS AND COMPONENTS, TAKING INTO ACCOUNT REGULATORY DEVELOPMENTS IN MEMBER STATES AND PRESENT STATE OF NUCLEAR TECHNOLOGY. CODES OF PRACTICE WOULD BE SUBJECT TO APPROVAL BY BOARD OF GOVERNORS AND WOULD BECOME PART OF AGENCY'S "SAFETY STANDARDS" AND RECOMMENDED TO GOVERNMENTS AS BASIS FOR THEIR OWN NATIONAL SAFETY REGULATIONS. PROPOSED INITIAL TWO-YEAR PHASE OF PROGRAM CALLS FOR DEVELOPMENT OF SEVEN CODES OF PRACTICE, I.E., ON GENERAL SITE REQUIREMENTS, ASEISMIC DESIGN, INPUT TO STRUCTURAL CODES, SELECTION AND TRAINING OF PERSONNEL, QUALITY ASSURANCE PROGRAM REQUIREMENTS, AND TWO CODES FOR FOLLOWING FOUR TOPICS: EMERGENCY CORE COOLING SYSTEM, PIPE WHIP, ANTICIPATED TRANSIENT WITHOUT SCRAM, AND HYDROGEN CONTROL AFTER LOSS OF COOLANT ACCIDENT.

B. SAFETY GUIDES, WHICH WOULD RECOMMEND PROCEDURES TO ACHIEVE ADEQUATE SAFETY IN IMPLEMENTING SPECIFIC REQUIREMENTS OF CODES OF PRACTICE. THESE WOULD GENERALLY BE MORE DETAILED THAN CODES OF PRACTICE AND WOULD BE DIRECTED PRIMARILY TO REGULATORY AUTHORITIES, ALTHOUGH THEY WOULD ALSO PROVIDE BASIS FOR WORK OF DESIGNERS AND UTILITIES. FIRST PHASE OF PROPOSED PROGRAM CALLS FOR DEVELOPMENT OF 14 SAFETY GUIDES ON FOLLOWING SUBJECTS: (1) FLOODING; (2) TORNADOES, EXTREME WINDS; (3) AIRCRAFT CRASHES, EXPLOSIONS; (4) GENERAL DESIGN CRITERIA

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FOR PWR; (5) FOR BWR; (6) FOR PRESSURE TUBE REACTORS;
(7) PWR ACCIDENTS EVALUATION; (8) BWR ACCIDENTS EVALUATION;
(9) PRESSURE TUBE REACTOR ACCIDENTS EVALUATION; (10) PERIODIC
TESTING OF FILTERS; (11) OF CONTAINMENT; (12) PERIODIC INSPECTION
OF PRESSURE VESSELS; (13) QUALITY ASSURANCE PROGRAM FOR DESIGN;
AND (14) QUALITY ASSURANCE PROGRAM FOR ACTIVITIES DIFFERENT
FROM DESIGN.

C. USERS' MANUALS, WHICH WOULD BE DIRECTED PRIMARILY TO
REACTOR PLANT OWNERS AND OPERATORS, AND WHICH WOULD RECOMMEND
METHODS AND TECHNIQUES TO MEET REQUIREMENTS WHICH SHOULD BE
FULFILLED TO ENSURE SAFETY AND RELIABILITY OF POWER REACTOR
PLANTS, AND THEIR SYSTEMS AND COMPONENTS. THESE WOULD BE DETAILED
MANUALS DESIGNED MAINLY TO ASSIST UTILITY PERSONNEL IN SOLVING
PROBLEMS RELATED TO SAFETY AND RELIABILITY. USERS' MANUALS
DEALING WITH FOLLOWING TEN SUBJECTS ARE PROPOSED UNDER FIRST
PHASE OF PROGRAM: (1) GENERAL SITE INFORMATION; (2) SEISMIC
CHARACTERISTICS; (3) WINDS AND TORNADOES; (4) FLOODS; (5)
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SOIL CHARACTERISTICS AND BEARING CAPACITY; (6) SITING CHARACTERISTICS
NOT RELATED TO SAFETY; (7) CONTRACTUAL REQUIREMENTS; (8) PERIODIC
TESTING OF SAFETY FEATURES; (9) STAFF TRAINING; AND (10)
HOW TO ARGANIZE QUALITY ASSURANCE GROUP AND TRAIN THE STAFF.

5. PROCEDURE FOR UNDERTAKING VARIOUS TASKES UNDER THIS PROGRAM
BASICALLY WOULD BE AS FOLLOWS: AD HOC ADVISORY COMMITTEE
WILL BE EXPECTED TO RECOMMEND PRIORITIES RE DOCUMENTS IN EACH
CATEGORY TO BE PREPARED; INITIAL DRAFT OF EACH REPORT WOULD BE
PREPARED BY TWO OUTSIDE EXPERTS; INITIAL DRAFT REPORT WOULD BE
SUBMITTED TO SUB-COMMITTEE OF ADVISORY COMMITTEE (FOUR SUCH
SUB-COMMITTEES WOULD BE ESTABLISHED, CORRESPONDING TO FOUR MAIN
SUBJECT AREAS OR GROUPS NOTED PARA 3 ABOVE) FOR DISCUSSION AND
PREPARATION OF REVISED DRAFT; IN CASE OF CODES OF PRACTICE,
REVISED DRAFT REPORT THEN WOULD BE SENT TO MEMBER STATES AND
AD HOC ADVISORY COMMITTEE FOR COMMENT, AFTER WHICH APPROPRIATE
SUB-COMMITTEE WOULD PREPARE FINAL REPORT, TAKING INTO ACCOUNT
ALL COMMENTS, WHICH WOULD BE SUBMITTED TO BOARD OF GOVERNORS

FOR APPROVAL AND SUBSEQUENT ISSUANCE BY AGENCY; IN CASE OF SAFETY GUIDES, REVISED DRAFT REPORT WOULD BE SUBMITTED TO AD HOC ADVISORY COMMITTEE FOR CONSIDERATION AND APPROVAL, AFTER WHICH IT WOULD BE ISSUED BY AGENCY; IN CASE OF USERS' MANUAL, FIRST DRAFT REPORT WOULD BE DISCUSSED, AMENDED AND APPROVED BY APPROPRIATE SUB-COMMITTEE, AFTER WHICH IT WOULD BE ISSUED BY AGENCY.

6. AMOUNT OF MANPOWER AND MEETINGS THAT WILL BE REQUIRED TO ACCOMPLISH FOREGOING IS SUBSTANTIAL. AGENCY WILL REQUIRE 5-6 STAFF MEMBERS TO DEVOET ESTIMATED 417 WEEKS OF EFFORT; EXPERTS FOR PREPARATION INITIAL DRAFT REPORTS WILL BE REQUIRED FOR 62 THREE-WEEK PERIODS FOR INITIAL DRAFTING, AND ADDITIONAL 76 ONE-WEEK PERIODS FOR MEETINGS WITH AGENCY STAFF, SUB-COMMITTEES AND AD HOC ADVISORY COMMITTEE; SUB-COMMITTEES WILL REQUIRE 38 ONE-WEEK MEETINGS; AND AD HOC ADVISORY COMMITTEE WILL NEED ABOUT 8 ONE-WEEK MEETINGS. AGENCY'S PRELIMINARY COST ESTIMATE FOR INITIAL TWO-YEAR PHASE THIS PROGRAM IS ON ORDER OF \$1 MILLION -- NOT RPT NOT INCLUDING SALARIES, TRAVEL AND PER DIEM EXPENSES OF MANY OF THE PARTICIPATNS THAT WILL ATTEND MEETINGS OF THE AD HOC ADVISORY COMMITTEE AND VARIOUS SUB-COMMITTEES. (AGENCY WOULD, HOWEVER, PICK UP TRAVEL AND PER DIEM EXPENSES ONLY FOR FEW PARTICIPANTS ATTENDING THESE MEEGINGS FROM DEVELOPING UNCLASSIFIED

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COUNTRIES.) TRAVEL AND PER DIEM (BUT NOT RPT NOT SALARIES) WOULD BE PROVIDED FOR EXPERTS COMING TO PREPARE INITIAL DRAFT REPORTS.

7. MISSION COMMENTS PROVIDED SEPTEL. PORTER

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